

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A process for the preparation of a robust microfluidics device having at least one interconnect, comprising:

positioning at least one elastomeric portion onto a rigid substrate, said elastomeric portion containing, or said elastomeric portion defining together with said substrate, at least one fluid passage;

providing at least one interconnect to said elastomeric portion;

encapsulating said elastomeric portion(s) and said interconnect(s) with a curable resin which exhibits volumetric contraction upon curing, said resin surrounding said elastomeric portion and at least a portion of said substrate; and

curing said curable resin to provide an encapsulated microfluidics device, whereby said curable resin presses said elastomeric portion against said substrate.

2. (Original) The process of claim 1 wherein said substrate is glass.

3. (Original) The process of claim 1 wherein said interconnect is a fluid supply tubing or fluid receiving tubing.

4. (Original) The process of claim 1 wherein said interconnect is a fiber optical cable.

5. (Original) The process of claim 1 wherein at least two fluid supply and/or fluid receiving tubing interconnects are present.

6. (Original) The process of claim 1 wherein said encapsulating resin is a transparent resin.

7. (Original) The process of claim 1 wherein said encapsulating resin is an epoxy resin.

8. (Original) The process of claim 1 wherein said substrate and said elastomeric portions are located within a cavity in a frame, and said encapsulating resin is introduced into said cavity.

9. (Original) The process of claim 8 wherein said frame is a two-part frame.

10. (Original) A microfluidics device prepared by the process of claim 1.

11. (Original) A microfluidics device prepared by the process of claim 2.

12. (Original) A microfluidics device prepared by the process of claim 3.

13. (Original) A microfluidics device prepared by the process of claim 4.

14. (Original) A microfluidics device prepared by the process of claim 5.

15. (Original) A microfluidics device prepared by the process of claim 6.

16. (Original) A microfluidics device prepared by the process of claim 7.

17. (Original) A microfluidics device prepared by the process of claim 8.

18. (Original) A microfluidics device prepared by the process of claim 9.

19. (Original) A microfluidics device prepared by the process of claim 1, wherein metal tubing interconnects which protrude from the encapsulated device in a defined

configuration adapted to be inserted into correspondingly configured fluid supply lines are in fluid communication with one or more microfluidic passages in said device.

20. (New) The process of claim 1, wherein said step of encapsulating comprises pouring a liquid curable resin onto said elastomeric portion(s) and said interconnect(s).